(b)	<u>უ</u>	H H H H H H H H H H	H	1 1	4 5 4 5	ည	CIC
TCG	AGG	TAT TTT TAT TTT	TAT		900 800 800 800 800 800 800 800 800 800	CTC	
55	700	900 900 900 900 900	AAG		ATT	CTG	070 701 070 101
CTG	TTA	CTG	CAG		TCT	GAG	CAG
<u>0</u>	CCC	CAG	GAG		GAG	CIA	GTG
Ħ	ATT	TAC CAC TAC CAC	AAG GAA		TCA	AAC	CCC
55	ACC	CTG	CTG		TTC	12 T	GAG
CTG	CCA	CGC CGT CGC CGC	ATC		767 767 767	AAA	CTG
CIC	TTC	CGT CAT CGT CAT	TAT		CTC	CAG	TGG
CTG	3	200	325		T CC .	CAG CAA CAG	TCA TCG TCA
100	AGT	င္ပမ	GAA		ACC	ACG ACG ACG	CAG
ACG	200	CTC	GAA		CAG	AAA GAA GAA	ACT
555	GAG	ATG	TTT		200	GTG GAG GTG GAG	CIC
	CAA	GCT	GAG		AAC	AGG	CTG
GGC	<u> </u>	AAC	CAG		CAG	AAC	CTG
ACA ACA	<u> 166</u>	GAC	TAT	TAT	CTG	10C	JQC
<u> </u>		TIT	ACC		TTC	<u>2828</u>	ATC
<u>ATG</u>	CTG	CIT	GAC		TCA	ACA	OBO
SEQ ID NO:1 SEQ ID NO:2 SEQ ID NO:3 SEQ ID NO:4							

Figure 1 Translated nucleotide sequence of hGH variants. Dashes indicate section deleted in 20 kDa hGH-V and 20 kDa hGH-N. Underlined section indicates signal sequence.

GTC	AGG	AGC	999	CGC	
AAC	766 666 766 666	TAC	TAC	CTG	
AGC	ATG	TCC ACC ACC	AAC	TTC	
GAC	CTG	CAG	AAG	ACA	TAG
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ACG	AAT AAG AAT AAG	CTC	GAG	TTC
ည	CAA	TTC	CTG CTA CTG	GTC	ggc
299	ATC	ATC	GCA	AAG	TGT
TAT TAC TAT TAC	ĠĠĊ	CAG	GAC	GAC	AGC
GTG	GAA	999	GAT	ATG	GTG GAG GGC AGC
CTG	GAG	ACT	AAC	GAC	GAG
AGC	CTA	990	CAC	AAG	GTG
AAC	GAC	8	703 704 705 706	AGG	
GCC	AAG	AGC	AAA AAA AAC	TTC	ည်
TTC	CTG CTA CTG	299	ACA	TGC	TGC
GTC	CAC CTC CTC	GAT	GAC	TAC	CAG
AGC AGT AGC AGT	CGC GAC GAC GAC	GAA	TET TET TET TEC	CTC	ATC GTG CAG TGC CGC TCT
AGG	TAT	CTG	AAG	CTG	ATC

Translated nucleotide sequence of hGH variants. Dashes indicate section deleted in 20 kDa hGH-V and 20 kDa hGH-N.

Figure 1 Cont.

20	Eg.	9	Gl	}	l	09	녍			80	Fen				100	Ser		
	Arg His Arg His		흅	1	ļ		£				Set					Asn		
	Arg		ž,	1	1		ם				2					Ala		
	Ala		Leu]	l		Set				Arg					Phe		
	Arg		Ile				Glu				Ę					Val		
	<u> </u>		Τχ	ļ	١		Ser				Leu					Ser		
	Met Met Ser		Ala	1	1		Phe				Gla					Arg		
	Ala		ᇙ	1	١		స్ట				Es					Ę		
	Asn		Glu	١	1		Leu				Asn					Leu	Le Pa	Phe
	Asp		Phe				Ser				Ser					g		
	Phe		7 Ola				占				Lys					Val		
	Leu		Gh				£				윰					P		
	Arg		ТуТ				Pro				듐					Glu		
	Se		দ				Asn				占					25		
	Leu		Asp				5	1	1		Ľ	Glu	Lys	용		Пр		
	Pr		F.	Į.	Phe		ទ្ធ	1	l			<u>1</u> 5	Vai	를		Set		
	흗		Ala				Phe	ļ	-		Arg					GJ		
	ᄺ		Zeu .				Set	1	}		Asn					Ile		
	£		g				Ţ.	1	Ì		Ser					Leu		
	Phe		4		His		Lys	1			£					Ę		
	SEQ ID NO:5 SEQ ID NO:6 SEQ ID NO:7 SEQ ID NO:8																	

Predicted amino acid sequences for 22 kDa hGH-V, 22 kDa hGH-N, 20 kDa hGH-V, 20 kDa hGH-N. A dash indicates deleted amino acids.

PCT/US2004/027187

120	G	140	Asm Lys	Asn Lys	160	4				180	Val			
	ᇙ		Phe			Asn					E E		·	
	Glu		음			Lys					Arg			
	<u> </u>					፭				•	Leu			
	Asp		Giy			Ę					Phe			
	Lys		녍			Ala					描			
	rea Lea		Arg			Asp					Glī			
	His His	3	£			Asp					Val			
	Arg Arg	di V	Sc			Asn					Lys			
	Ϋ́		G			His					Asp		161	Phe
	Val		Asp			Ser					Met	•		Gly
	Asn		흅			Lys	Asn	Lys	Asn		Asp			Ś
	Sq		, na			দ					Lys			Ser
	Asp		Arg			Asp					Arg			G Ş
	Ser		T. G. Ç.	g g	•	Phe					Phe			Glu
	Ala		Met			ŗ.					Š			Vai
	ਨੂੰ		弖			Ser					Ϋ́			Ser
	ŢŢ		븉			T,					Ē			Arg
	Val		eg E			Set	ם	Ser	Ē		Lea			Cy
	<u>F</u>		<u> 1</u>			Gľ					G _y			Ę.

Predicted amino acid sequences for 22 kDa hGH-V, 22 kDa hGH-N, 20 kDa hGH-V, 20 kDa hGH-N. A dash indicates deleted amino acids. Figure 2. Cont.

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bGH Radioreceptor Assay rbGH Tracer; Assay 0426

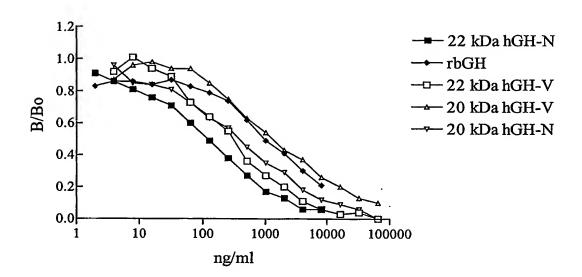


FIGURE 3

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bGH Radioreceptor Assay rbGH Tracer; Assay 0440

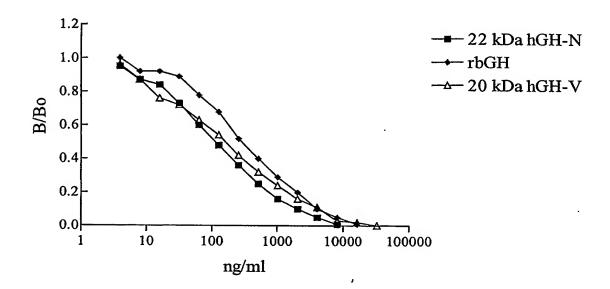


FIGURE 4

7/23

hGH Radioreceptor Assay rhGH Tracer; Assay 0434

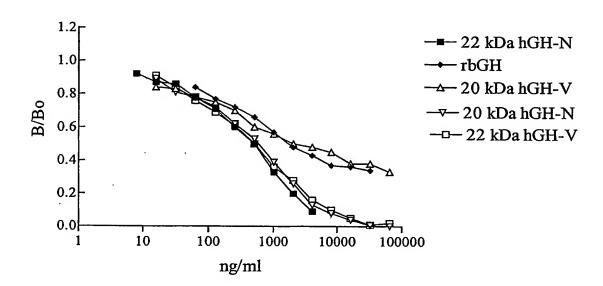


FIGURE 5

8/23 hGH Radioreceptor Assay rhGH Tracer; Assay 0435

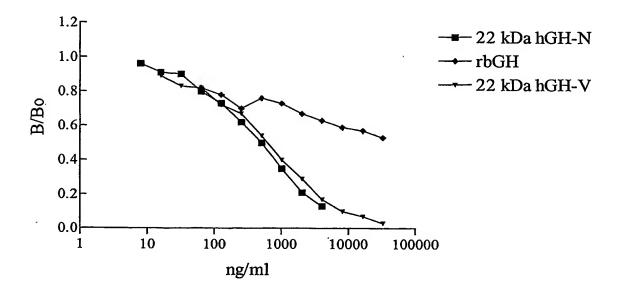


FIGURE 6

oPRL Radioreceptor Assay oPRL Tracer; Assay 0439

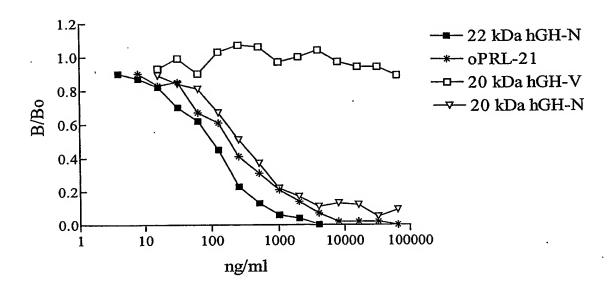


FIGURE 7

10/23

hGH Radioreceptor Assay rhGh Tracer; Assay 0441

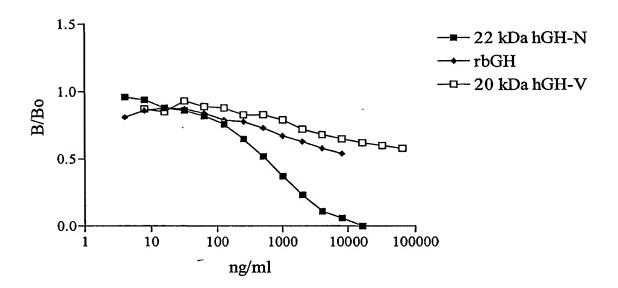


FIGURE 8

11/23

Change in Body Weight

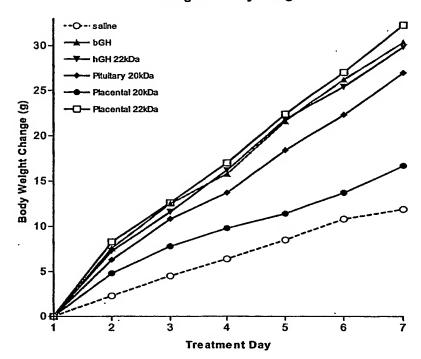


Figure 9

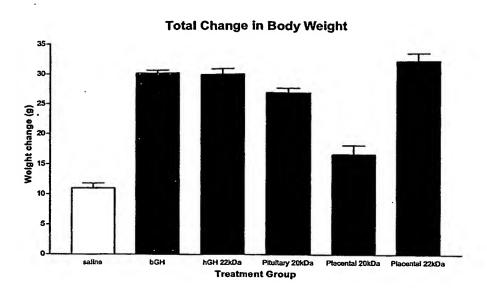


Figure 10A

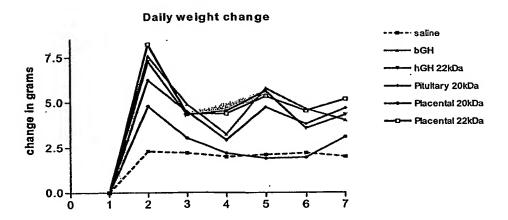


Figure 108

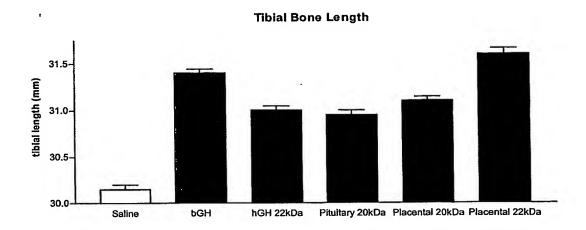


FIGURE 11

14/23

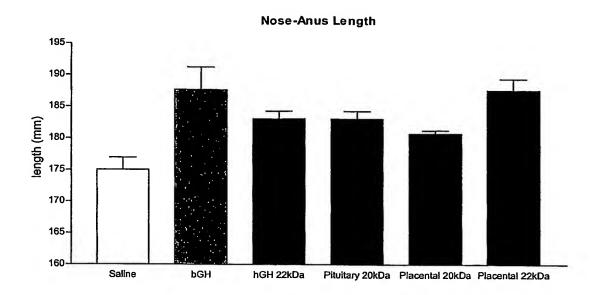


FIGURE 12

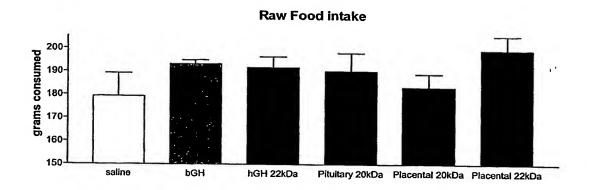


Figure 13A

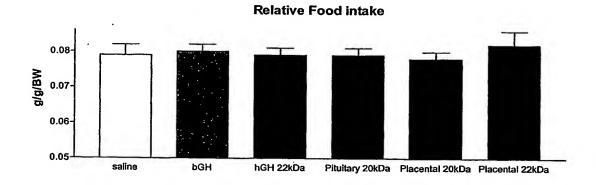


Figure 13B

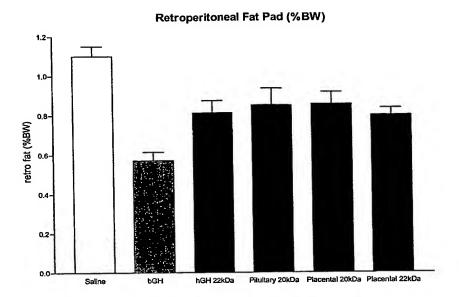


FIGURE 14

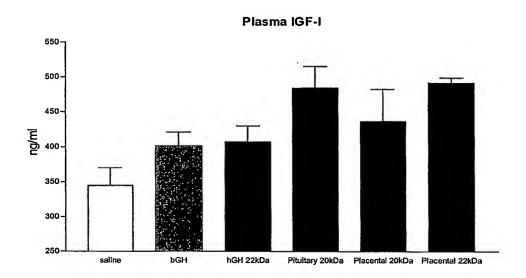


FIGURE 15

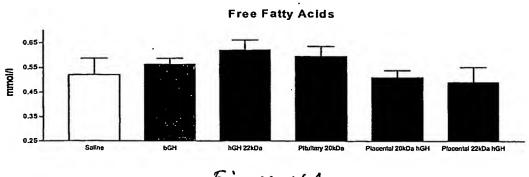


Figure 16A

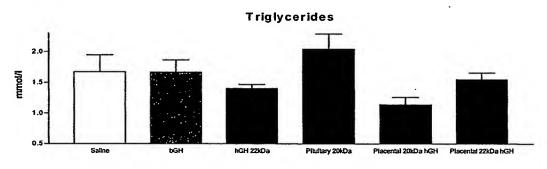


Figure 16 B

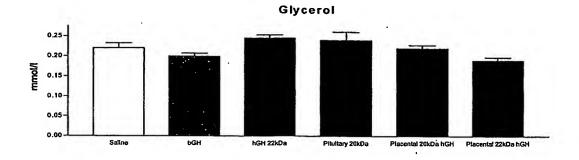


Figure 160

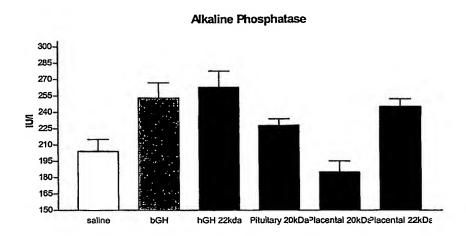


FIGURE 17

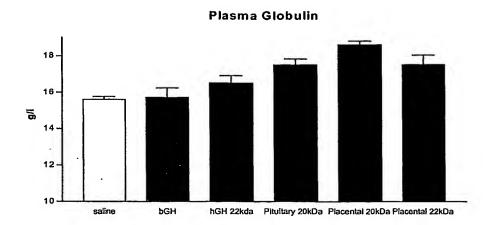


FIGURE 18

PCT/US2004/027187

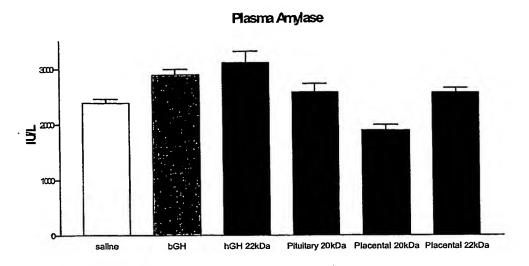


FIGURE 19

PCT/US2004/027187 22/23

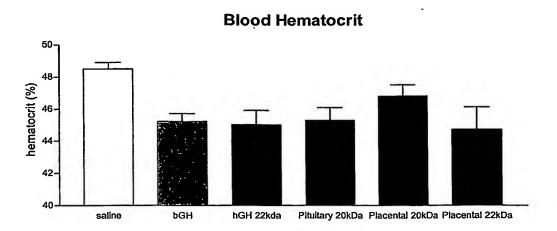


FIGURE 20

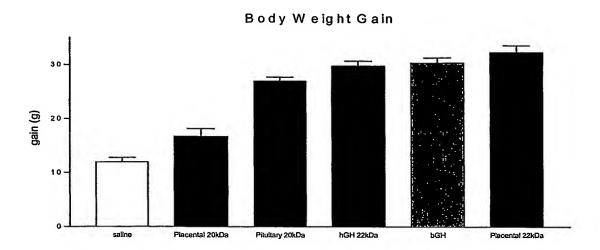


FIGURE 21